

UV Water Disinfectior

Introduction

The UV Cleanic system uses UV Technology to reduce bacterial growth in Reverse Osmosis Unit (RO). The purification level plays significant role in safe dialysis treatment. UVC germicidal irradiation is a well-versed method for disinfection. The spectrum of light between 10 nm and 400 nm is termed as Ultraviolet (UV) light. The germicidal range of UV light lies within the 200 nm – 280 nm wavelengths, also known as UVC. UV Cleanic uses UV lamps emitting UVC @ 253.4 nm wavelength. System is in use in dialysis unit in PGHI since Sep 2024.

Features:

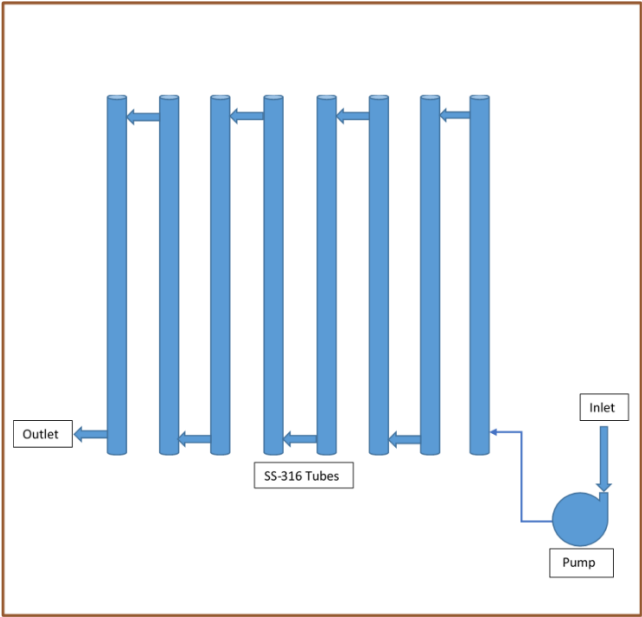
- Stainless steel, water leak proof housing for UV lamps
- Vertical mounting
- Shortwave UV radiation peak at 253.7 nm (UVC)
- Easy Operation and maintenance

Specifications:

- 220-240V~ (±10%), 50/60Hz
- Power Consumption 300 watt
- Working temperature -10°C ~45°C
- Lamp Effective Lifetime 9000 Hrs.
- Tube condition Indicators
- Water Flow Indication meter



Front Panel



System Schematic

Lab Test Results

PAEC General Hospital, Islamabad

Department of Microbiology



Patient Name :	DIALYSIS UNIT	Order # :	04/25-10571
Specimen :	WATER	Lab # :	04/25-10571
Ref. By :		Dept. Code :	P-11/08-00189
Sample Date :	25/04/2025 10:56:19 AM	Reporting Date :	03/05/2025 12:16:29 PM

Quality Control Culture

Test Name	Result	Reference Range
Media Used for Culture	Blood & MacConkey	CLED
Temperature of incubation	37 c	37 c
Duration of Incubation	48 Hours	48 Hours , 24 Hours
Conditions of Incubation	Aerobic	Aerobic

Sample Site & Growth Obtained

Name of Company: PAEC General Hospital

Address : PAEC General Hospital, H-11/4 Islamabad

Water Source : WRO water

Type of Specimen : Pre UV

Location : Nephrology (Dialysis unit)

Date Sample Received: 25/04/2025

Bacteriological Examination:

Total Plate Count :71 CFU/100ml

Total Coliforms : CFU/100ml

Fecal Coliforms : 0 CFU/100ml

Pseudomonas : 71 CFU/100ml

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Quality Control Culture

Test Name	Result	Reference Range
Media Used for Culture	Blood & MacConkey	CLED
Temperature of incubation	37 c	37 c
Duration of Incubation	48 Hours	48 Hours , 24 Hours
Conditions of Incubation	Aerobic	Aerobic

Sample Site & Growth Obtained

Name of Company: PAEC General Hospital

Address : PAEC General Hospital, H-11/4 Islamabad

Water Source : WRO water

Type of Specimen : Post UV

Location : Nephrology (Dialysis unit)

Date Sample Received: 25/04/2025

Bacteriological Examination:

Total Plate Count :11 CFU/100ml

Total Coliforms : CFU/100ml

Fecal Coliforms : 0 CFU/100ml

Pseudomonas : 11 CFU/100ml